

## Bibliographic Information: WO03/037864

**Preparation of indole derivatives as inhibitors of human liver glycogen phosphorylase a.** Nakamura, Takeshi; Takagi, Masaki; Ueda, Nobuhisa. (Japan Tobacco Inc., Japan). PCT Int. Appl. (2003), 237 pp. CODEN: PIXXD2 WO 2003037864 A1 20030508 Designated States W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW. Designated States RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, ML, MR, NE, SN, TD, TG. Patent written in Japanese. Application: WO 2002-JP11234 20021029. Priority: JP 2001-331501 20011029. CAN 138:368761 AN 2003:356418 CAPLUS

## Patent Family Information

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| WO 2003037864   | A1   | 20030508 | WO 2002-JP11234 | 20021029 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| CA 2465382  | AA   | 20030508 | CA 2002-2465382 | 20021029 |
| JP 2003201279   | A2   | 20030718 | JP 2002-315100  | 20021029 |
| EP 1452526  | A1   | 20040901 | EP 2002-777995  | 20021029 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |      |          |                 |          |
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## Priority Application

|                 |   |          |
|-----------------|---|----------|
| JP 2001-331501  | A | 20011029 |
| WO 2002-JP11234 | W | 20021029 |

## Abstract

The title compds. I [R1 = H, alkyl, etc.; R2 = H, halo; R3 = halo, alkyl, etc.; R4 = H, alkyl; R5 = H, alkyl, alkoxy carbonyl; R6 = H, alkyl, etc.; R7 = C(:X)AB; X = O, etc.; A = NR8, etc.; R8 = H, alkyl, etc.; B = (un)substituted Ph, etc.] are prep'd. I are useful in the treatment of diabetes. Compds. of this invention in vitro showed IC50 values of 0.010  $\mu$ M to > 0.1  $\mu$ M against human liver glycogen phosphorylase a.

